Thank You!

Your Poster has been accepted on July 27, 2006 at 1:04 pm for the MODIS Vegetation Workshop III.

Theme: 2. Time series of vegetation data

Title: Improving access to Land and Atmosphere science products from Earth Observing Satellites: Helping NACP investigators better utilize MODIS data products.

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Abstract: NACP ACCESS is a NASA-funded project supporting the upcoming North American Carbon Program (NACP), a component of the USGCRP Carbon Cycle Science Program. The purpose of this ACCESS project is to provide researchers with MODIS data products that are custom tailored for use in NACP model studies. The NACP is designed to provide the scientific underpinning to inform future policy decisions involving the carbon cycle, such as managing carbon sources and sinks by efficient and effective options to reduce emission or enhance carbon sinks. Information from earth observing satellites plays a major role in providing spatial and temporal information required to address the carbon accounting sought by the NACP. The programs hopes to capitalize on the information gained from the current generation of satellite data. In particular, MODIS is expected to

play a major role in regional and global analysis inherent to NACP. Our strategy is to offer a wide range of processing capabilities to be applied to any of the MODIS land and atmosphere products for a focus group of NACP investigators. This would involve 5-10 investigators in year one. During this first year we will develop the capacity to provide these investigators with very specific products that precisely match their needs. In year two we will expand the number of users to ~30 while assessing which requests/tools are most common among users. Year three would then develop an operational capacity for the most requested and/or critical tools. The research community requires that EOS platforms provide regional time-dependent parameters as well as long-term global data for climate studies. Regional analyses like NACP are connecting atmospheric constituents (mainly greenhouse gases) with surface processes on the land and ocean. MODIS data are key to providing detailed spatial and temporal information about the surface condition and dynamics as well as refining physical models of diverse phenomena such as aerosol/cloud interactions, radiative forcing and aerosol/chemical transport. We are addressing a major challenge for researchers, namely, acquiring EOS data at suitable spatial-temporal resolutions and in formats consistent with data integration into model studies

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back to the workshop homepage